

Application No. 10/714,155
Response to Notice of Non-Compliant Amendment
dated August 8, 2006

BEST AVAILABLE COPY

Inc. to Medtronic AVE, Inc. On that same date, the certificate of incorporation of "Medtronic AVE, Inc." was amended to reflect a corporate name change to "Medtronic Vascular, Inc." The assignment of parent application Serial No. 10/033,836 and the accompanying corporate name change certificate were recorded on February 26, 2004 at Reel 01500/Frame 0001. Attached to this response is 1) a copy of a printout from the available on-line assignment records relating to parent application Serial No. 10/033,836 as well as a complete copy of the assignment and name change documents dated September 9, 2003. On the basis of these documents, it is submitted that, at all times since September 9, 2003, the assignee of all right, title and interest in and to parent application Serial No. 10/033,836 has been Medtronic Vascular, Inc. Because this continuation application was filed on November 14, 2003 (i.e., subsequent to the September 9, 2003 effective date of the assignment of the parent application) this continuation application is also assigned to Medtronic Vascular, Inc.

Accordingly, the current assignee of record for this patent application is Medtronic Vascular, Inc. and, on that basis, the previously submitted terminal disclaimer is believed to be correct.

Applicant notes that the serial number of the present application was incorrectly indicated on the captions of the response and terminal disclaimer filed on March 21, 2006 (i.e., "10/715,155" instead of "10/714,155"). However, it appears that such response and terminal disclaimer were correctly associated with the present application. Therefore Applicant is proceeding with the understanding that no further action is required to correct these typographical caption errors.

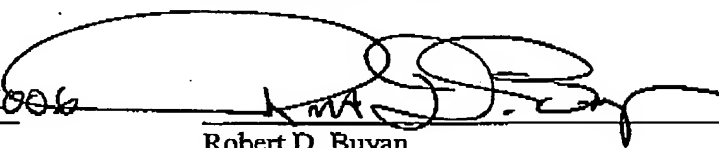
A one (1) month extension of time is hereby petitioned for under 37 C.F.R. 1.136 and the Commissioner is hereby authorized to deduct the large entity fee for such one (1) month extension of time, as well as any other fee properly deemed to be due in connection with this filing, from Deposit Account No. 50-0878. If the Examiner feels that a telephone conference

Application No. 10/714,155
Response to Notice of Non-Compliant Amendment
dated August 8, 2006

would in any way expedite the prosecution of the application, please do not hesitate to call the undersigned at the number indicated below.

Respectfully submitted,

Date: October 6, 2006


Robert D. Buyan
Registration No. 32,460
Attorney for Applicant

STOUT, UXA, BUYAN & MULLINS, LLP
4 Venture, Suite 300
Irvine, California 92618
Telephone: (949)450-1750
Facsimile: (949)450-1764

OCT-06-06 02:28PM FROM-StoutUxaBuyanMullins

+949-450-1764

T-493 P.005/039 F-185

Exhibit 1

USPTO Assignments on the Web

RECEIVED
CENTRAL FAX CENTER

Page 1 of 1



United States Patent and Trademark Office

OCT 06 2006

[Home](#) | [Site Index](#) | [Search](#) | [Guides](#) | [Contacts](#) | [eBusiness](#) | [eBiz alerts](#) | [News](#) | [Help](#)

Assignments on the Web > Patent Query

Patent Assignment Abstract of Title

**NOTE: Results display only for issued patents and published applications.
For pending or abandoned applications please consult USPTO staff.**

Total Assignments: 1

Patent #: 6660024 Issue Dt: 12/09/2003 Application #: 10033836 Filing Dt: 12/26/2001

Inventors: J. Christopher Flaherty, Jason B. Whitt, John Y. Chang, David R. Tholfsen et al

Title: TISSUE PENETRATING CATHETERS HAVING INTEGRAL IMAGING TRANSDUCERS AND THEIR METHODS OF USE

Assignment: 1

Reel/Frame: 015000/0001

Recorded: 02/26/2004

Pages: 20

Conveyance: ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS).

Assignor: TRANSVASCULAR, INC.

Exec Dt: 09/09/2003

Assignee: MEDTRONIC VASCULAR, INC.3576 UNOCAL PLACE
SANTA ROSA, CALIFORNIA 95403

Correspondent: STOUT, UXA, BUYAN, ET.AL.

ROBERT D. BUYAN
4 VENTURE SUITE 300
IRVINE, CA 92618

Search Results as of: 10/06/2006 03:42 PM
If you have any comments or questions concerning the data displayed, contact PRD / Assignments at 571-272-3350.
Vweb interface last modified: July 26, 2006 v.1.10

[HOME](#) | [INDEX](#) | [SEARCH](#) | [eBUSINESS](#) | [CONTACT US](#) | [PRIVACY STATEMENT](#)

OCT-06-06 02:28PM FROM-StoutUxaBuyanMullins

+949-450-1764

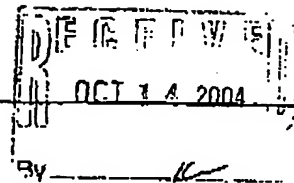
T-493 P.007/039 F-185

Exhibit 2



UNITED STATES PATENT AND TRADEMARK OFFICE

UNDER SECRETARY OF COMMERCE FOR INTELLECTUAL PROPERTY AND
DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE



AUGUST 18, 2004

PTAS

STOUT, UXA, BUYAN, ET.AL.
ROBERT D. BUYAN
4 VENTURE SUITE 300
IRVINE, CA 92618



102681675A

UNITED STATES PATENT AND TRADEMARK OFFICE NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 02/26/2004

REEL/FRAME: 015000/0001
NUMBER OF PAGES: 20

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

TRANSVASCULAR, INC.

DOC DATE: 09/09/2003

ASSIGNEE:

MEDTRONIC VASCULAR, INC.
3576 UNOCAL PLACE
SANTA ROSA, CALIFORNIA 95403

71999 CON1
SERIAL NUMBER: 09708923

PATENT NUMBER:

FILING DATE: 11/08/2000

ISSUE DATE:

TITLE: METHODS AND APPARATUS FOR BYPASSING ARTERIAL OBSTRUCTIONS AND/OR
PERFORMING OTHER TRANSVASCULAR PROCEDURES

71999 2102
SERIAL NUMBER: 10425543

PATENT NUMBER:

FILING DATE: 04/29/2003

ISSUE DATE:

TITLE: METHODS AND APPARATUS FOR BYPASSING ARTERIAL OBSTRUCTIONS AND/OR
PERFORMING OTHER TRANSVASCULAR PROCEDURES

P.O. Box 1450, Alexandria, Virginia 22313-1450 - www.USPTO.gov

015000/0001 PAGE 2

P1999 p20
SERIAL NUMBER: 60005164 FILING DATE: 10/13/1995
PATENT NUMBER: ISSUE DATE:
TITLE: DEVICE, SYSTEM AND METHOD FOR INTERSTITIAL TRANSVASCULAR
INTERVENTION

P2000 p22
SERIAL NUMBER: 09181701 FILING DATE: 10/28/1998
PATENT NUMBER: 6746464 ISSUE DATE: 06/08/2004
TITLE: DEVICE, SYSTEM AND METHOD FOR INTERSTITIAL TRANSVASCULAR
INTERVENTION

P2001 p22
SERIAL NUMBER: 10640998 FILING DATE: 08/14/2003
PATENT NUMBER: ISSUE DATE:
TITLE: DEVICE, SYSTEM AND METHOD FOR INTERSTITIAL TRANSVASCULAR
INTERVENTION

P2001 p20
SERIAL NUMBER: 60010614 FILING DATE: 02/02/1996
PATENT NUMBER: ISSUE DATE:
TITLE: DEVICE, SYSTEM AND METHOD FOR INTERSTITIAL TRANSVASCULAR
INTERVENTION

P2001 p20
SERIAL NUMBER: 10425756 FILING DATE: 04/29/2003
PATENT NUMBER: ISSUE DATE:
TITLE: DEVICE, SYSTEM AND METHOD FOR INTERSTITIAL TRANSVASCULAR
INTERVENTION

P2002 p20
SERIAL NUMBER: 60028922 FILING DATE: 08/26/1996
PATENT NUMBER: ISSUE DATE:
TITLE: METHODS AND APPARATUS FOR TRANSMYOCARDIAL DIRECT CORONARY
REVASCULARIZATION

P2002 p20
SERIAL NUMBER: 08837295 FILING DATE: 04/11/1997
PATENT NUMBER: ISSUE DATE:
TITLE: METHODS AND APPARATUS FOR TRANSMYOCARDIAL DIRECT CORONARY
REVASCULARIZATION

P2002 p20
SERIAL NUMBER: 09710332 FILING DATE: 11/09/2000
PATENT NUMBER: ISSUE DATE:
TITLE: METHODS AND APPARATUS FOR TRANSMYOCARDIAL DIRECT CORONARY
REVASCULARIZATION

P2002 p20
SERIAL NUMBER: 09994222 FILING DATE: 11/26/2001
PATENT NUMBER: ISSUE DATE:
TITLE: METHODS AND APPARATUS FOR TRANSMYOCARDIAL DIRECT CORONARY
REVASCULARIZATION

P2002 p20
SERIAL NUMBER: 10150306 FILING DATE: 05/16/2002
PATENT NUMBER: ISSUE DATE:
TITLE: METHODS AND APPARATUS FOR TRANSMYOCARDIAL DIRECT CORONARY
REVASCULARIZATION

P2002 p20
SERIAL NUMBER: 10436016 FILING DATE: 05/12/2003
PATENT NUMBER: ISSUE DATE:
TITLE: METHODS AND APPARATUS FOR CONNECTING OPENINGS FORMED IN ADJACENT
BLOOD VESSELS OR OTHER ANATOMICAL STRUCTURES

015000/0001 PAGE 3

7204 DW1
7205 DW3
SERIAL NUMBER: 09912122 FILING DATE: 07/24/2001
PATENT NUMBER: ISSUE DATE:
TITLE: CATHETERS AND RELATED DEVICES FOR FORMING PASSAGEWAYS BETWEEN BLOOD VESSELS OR OTHER ANATOMICAL STRUCTURES

7205 DW1
7206 DW3
SERIAL NUMBER: 10259210 FILING DATE: 09/27/2002
PATENT NUMBER: ISSUE DATE:
TITLE: TRANSLUMINAL METHODS AND DEVICES FOR CLOSING, FORMING ATTACHMENTS TO, AND/OR FORMING ANASTOMOTIC JUNCTIONS IN, LUMINAL ANATOMICAL STRUCTURES

7206 DW1
7207 DW3
SERIAL NUMBER: 09911975 FILING DATE: 07/24/2001
PATENT NUMBER: ISSUE DATE:
TITLE: DEVICES FOR FORMING AND/OR MAINTAINING CONNECTIONS BETWEEN ADJACENT ANATOMICAL CONDUITS

7207 DW1
7208 DW3
SERIAL NUMBER: 09845372 FILING DATE: 04/30/2001
PATENT NUMBER: ISSUE DATE:
TITLE: DEVICES FOR FORMING AND/OR MAINTAINING CONNECTIONS BETWEEN OPENINGS IN AN ANATOMICAL CONDUITS

7208 DW1
7209 DW3
SERIAL NUMBER: 10346556 FILING DATE: 01/17/2003
PATENT NUMBER: ISSUE DATE:
TITLE: TRANSLUMINAL DEVICES, SYSTEMS AND METHODS FOR ENLARGING INTERSTITIAL PENETRATION TRACTS

7209 DW1
7210 DW3
SERIAL NUMBER: 10370429 FILING DATE: 02/20/2003
PATENT NUMBER: ISSUE DATE:
TITLE: CATHETERS, SYSTEMS AND METHODS FOR PERCUTANEOUS IN SITU ARTERIO-VEINOUS BYPASS

7210 DW1
7211 DW3
SERIAL NUMBER: 10033836 FILING DATE: 12/26/2001
PATENT NUMBER: 6660024 ISSUE DATE: 12/09/2003
TITLE: TISSUE PENETRATING CATHETERS HAVING INTEGRAL IMAGING TRANSDUCERS AND THEIR METHODS OF USE

7211 DW1
7212 DW3
SERIAL NUMBER: 09538119 FILING DATE: 03/29/2000
PATENT NUMBER: 6726677 ISSUE DATE: 04/27/2004
TITLE: STABILIZED TISSUE PENETRATING CATHETERS

7212 DW1
7213 DW3
SERIAL NUMBER: 09960003 FILING DATE: 09/21/2001
PATENT NUMBER: 6669709 ISSUE DATE: 12/30/2003
TITLE: CATHETER APPARATUS AND METHODOLOGY FOR GENERATING A FISTULA ON-DEMAND BETWEEN CLOSELY ASSOCIATED BLOOD VESSELS AT A PRE-CHOSEN ANATOMIC SITE IN-VIVO

7213 DW1
7214 DW3
SERIAL NUMBER: 09613675 FILING DATE: 07/11/2000
PATENT NUMBER: 6746426 ISSUE DATE: 06/08/2004
TITLE: TRANSLUMINALLY DELIVERABLE VASCULAR BLOCKERS AND METHODS FOR FACILITATING RETROGRADE FLOW OF ARTERIAL BLOOD THROUGH VEINS

7214 DW1
7215 DW3
SERIAL NUMBER: 09320172 FILING DATE: 05/26/1999
PATENT NUMBER: ISSUE DATE:
TITLE: APPARATUS FOR PROVIDING CORONARY RETROPERFUSION AND METHODS OF USE

015000/0001 PAGE 4

P2035 con1
SERIAL NUMBER: 09794297 FILING DATE: 02/27/2001
PATENT NUMBER: ISSUE DATE:
TITLE: APPARATUS FOR PROVIDING CORONARY RETROPERFUSION AND/OR LEFT VENTRICULAR ASSIST AND METHODS FOR USE

P2035 .01 CIP 1
SERIAL NUMBER: 10466622 FILING DATE: 03/01/2004
PATENT NUMBER: ISSUE DATE:
TITLE: DEVICES, SYSTEMS AND METHODS FOR ACUTE OR CHRONIC DELIVERY OF SUBSTANCES OR APPARATUS TO EXTRAVASCULAR TREATMENT SITES

P2037 .01 con1
SERIAL NUMBER: 10458153 FILING DATE: 06/10/2003
PATENT NUMBER: ISSUE DATE:
TITLE: METHODS AND APPARATUS FOR ACUTE OR CHRONIC DELIVERY OF SUBSTANCES OR APPARATUS TO EXTRAVASCULAR TREATMENT SITES

P2034 us
SERIAL NUMBER: 10467274 FILING DATE: 03/12/2004
PATENT NUMBER: ISSUE DATE:
TITLE: METHODS AND APPARATUS FOR GUIDED TRANSLUMINAL INTERVENTIONS USING VESSEL WALL PENETRATING CATHETERS AND OTHER APPARATUS

P2025 us
SERIAL NUMBER: 09860147 FILING DATE: 05/17/2001
PATENT NUMBER: 6709444 ISSUE DATE: 03/23/2004
TITLE: METHODS FOR BYPASSING TOTAL OR NEAR-TOTAL OBSTRUCTIONS IN ARTERIES OR OTHER ANATOMICAL CONDUITS

(NOT a/c CASE)
SERIAL NUMBER: 10370201 *(10/370,201)* *P2025 con2*
PATENT NUMBER: FILING DATE: 02/20/2003
TITLE: METHOD AND SYSTEM FOR SCREENING REMOTE SITE CONNECTIONS AND FILTERING DATA BASED ON A COMMUNITY TRUST ASSESSMENT

P2026 CIP
SERIAL NUMBER: 10391481 FILING DATE: 03/17/2003
PATENT NUMBER: ISSUE DATE:
TITLE: IMPLANTABLE LUMEN OCCLUDING DEVICES AND METHODS

P2027 us
SERIAL NUMBER: 10411891 FILING DATE: 04/11/2003
PATENT NUMBER: ISSUE DATE:
TITLE: DEVICES AND METHODS FOR TRANSLUMINAL OR TRANSTHORACIC INTERSTITIAL ELECTRODE PLACEMENT

P2027 PIV
SERIAL NUMBER: 60455015 FILING DATE: 03/13/2003
PATENT NUMBER: ISSUE DATE:
TITLE: OPTICALLY GUIDED PENETRATION CATHETERS AND THEIR METHODS OF USE

P2030 .01 DW1
SERIAL NUMBER: 09826049 FILING DATE: 04/03/2001
PATENT NUMBER: 6685648 ISSUE DATE: 02/03/2004
TITLE: SYSTEMS AND METHODS FOR DELIVERING DRUGS TO SELECTED LOCATIONS WITHIN THE BODY

P2031 DW2
SERIAL NUMBER: 10617105 FILING DATE: 07/09/2003
PATENT NUMBER: ISSUE DATE:
TITLE: DEFORMABLE SCAFFOLDING MULTICELLULAR STENT

015000/0001 PAGE 5

(NOT ON CASE) *7203205*
SERIAL NUMBER: 09748109 *(09/478109)* FILING DATE: 12/27/2000
PATENT NUMBER: ISSUE DATE:
TITLE: OXIDATION APPARATUS AND METHOD OF CLEANING THE SAME

7203205
SERIAL NUMBER: 09539639 FILING DATE: 03/30/2000
PATENT NUMBER: ISSUE DATE:
TITLE: APPARATUS AND METHODS FOR CREATING A CHANNEL BETWEEN ADJACENT BODY LUMENS

72034 CP
SERIAL NUMBER: 09179737 FILING DATE: 10/27/1998
PATENT NUMBER: 6379319 ISSUE DATE: 04/30/2002
TITLE: SYSTEMS AND METHODS FOR DIRECTING AND SNARING GUIDEWIRES

72034 DIV1
SERIAL NUMBER: 10136929 FILING DATE: 04/30/2002
PATENT NUMBER: ISSUE DATE:
TITLE: SYSTEMS AND METHODS FOR DIRECTING AND SNARING GUIDEWIRES

71999 US
SERIAL NUMBER: 08730327 FILING DATE: 10/11/1996
PATENT NUMBER: 6190353 ISSUE DATE: 02/20/2001
TITLE: METHODS AND APPARATUS FOR BYPASSING ARTERIAL OBSTRUCTIONS AND/OR PERFORMING OTHER TRANSVASCULAR PROCEDURES

71999 DIV1
SERIAL NUMBER: 09639963 FILING DATE: 08/16/2000
PATENT NUMBER: 6655386 ISSUE DATE: 12/02/2003
TITLE: TRANSLUMINAL METHOD FOR BYPASSING ARTERIAL OBSTRUCTIONS

72000 US
SERIAL NUMBER: 08730496 FILING DATE: 10/11/1996
PATENT NUMBER: 5830222 ISSUE DATE: 11/03/1998
TITLE: DEVICE, SYSTEM AND METHOD FOR INTERSTITIAL TRANSVASCULAR INTERVENTION

72000 CP1
SERIAL NUMBER: 09192554 FILING DATE: 08/10/1998
PATENT NUMBER: 6283983 ISSUE DATE: 09/04/2001
TITLE: PERCUTANEOUS IN-SITU CORONARY BYPASS METHOD AND APPARATUS

72000 DIV1
SERIAL NUMBER: 09179809 FILING DATE: 10/27/1998
PATENT NUMBER: 6068638 ISSUE DATE: 05/30/2000
TITLE: DEVICE, SYSTEM AND METHOD FOR INTERSTITIAL TRANSVASCULAR INTERVENTION

72000 DIV1
SERIAL NUMBER: 09181013 FILING DATE: 10/27/1998
PATENT NUMBER: 6159225 ISSUE DATE: 12/12/2000
TITLE: A DEVICE, SYSTEM AND METHOD FOR INTERSTITIAL TRANSVASCULAR INTERVENTION

72000 DIV3
SERIAL NUMBER: 09267943 FILING DATE: 03/11/1999
PATENT NUMBER: 6231587 ISSUE DATE: 05/15/2001
TITLE: DEVICES FOR CONNECTING ANATOMICAL CONDUITS SUCH AS VASCULAR STRUCTURES

(NOT ON CASE) *72001 US*
SERIAL NUMBER: 10095565 FILING DATE: 03/13/2002
PATENT NUMBER: 6567311 *6,579,311* ISSUE DATE: 05/20/2003
TITLE: NONVOLATILE MEMORY SYSTEM, SEMICONDUCTOR MEMORY, AND WRITING METHOD

015000/0001 PAGE 6

72003 JS
SERIAL NUMBER: 09117520 FILING DATE: 03/17/1999
PATENT NUMBER: 6616675 ISSUE DATE: 09/09/2003
TITLE: METHODS AND APPARATUS FOR CONNECTING OPENINGS FORMED IN ADJACENT BLOOD VESSELS OR OTHER ANATOMICAL STRUCTURES

72004 CIP
SERIAL NUMBER: 08837294 FILING DATE: 04/11/1997
PATENT NUMBER: 6302875 ISSUE DATE: 10/16/2001
TITLE: CATHETERS AND RELATED DEVICES FOR FORMING PASSAGEWAYS BETWEEN BLOOD VESSELS OR OTHER ANATOMICAL STRUCTURES

72005 US
SERIAL NUMBER: 09117516 FILING DATE: 01/21/1999
PATENT NUMBER: 6638293 ISSUE DATE: 10/28/2003
TITLE: METHODS AND APPARATUS FOR BLOCKING FLOW THROUGH BLOOD VESSELS

72007 US
SERIAL NUMBER: 08896307 FILING DATE: 06/28/1997
PATENT NUMBER: 6071292 ISSUE DATE: 06/06/2000
TITLE: TRANSLUMINAL METHODS AND DEVICES FOR CLOSING, FORMING ATTACHMENTS TO, AND/OR FORMING ANASTOMOTIC JUNCTIONS IN, LUMINAL ANATOMICAL STRUCTURES

72007 DIV1
SERIAL NUMBER: 09543251 FILING DATE: 04/05/2000
PATENT NUMBER: 6287317 ISSUE DATE: 09/11/2001
TITLE: TRANSLUMINAL METHODS AND DEVICES FOR CLOSING, FORMING ATTACHMENTS TO, AND/OR FORMING ANASTOMOTIC JUNCTIONS IN, LUMINAL ANATOMICAL STRUCTURES

72007 DIV2
SERIAL NUMBER: 09908337 FILING DATE: 07/18/2001
PATENT NUMBER: 6491707 ISSUE DATE: 12/10/2002
TITLE: TRANSLUMINAL METHODS AND DEVICES FOR CLOSING, FORMING ATTACHMENTS TO, AND/OR FORMING ANASTOMOTIC JUNCTIONS IN, LUMINAL ANATOMICAL STRUCTURES

72008 JS
SERIAL NUMBER: 07700625 FILING DATE: 05/15/1991
PATENT NUMBER: 5193546 ISSUE DATE: 03/16/1993
TITLE: CORONARY INTRAVASCULAR ULTRASOUND IMAGING METHOD AND APPARATUS

72009 CIP1
SERIAL NUMBER: 08970694 FILING DATE: 11/14/1997
PATENT NUMBER: 6432127 ISSUE DATE: 08/13/2002
TITLE: DEVICES FOR FORMING AND/OR MAINTAINING CONNECTIONS BETWEEN ADJACENT ANATOMICAL CONDUITS

72010 JS
SERIAL NUMBER: 09056589 FILING DATE: 04/07/1998
PATENT NUMBER: 6561998 ISSUE DATE: 05/13/2003
TITLE: TRANSLUMINAL DEVICES, SYSTEMS AND METHODS FOR ENLARGING INTERSTITIAL PENETRATION TRACTS

72011 JS
SERIAL NUMBER: 09282276 FILING DATE: 03/31/1999
PATENT NUMBER: 6544230 ISSUE DATE: 04/08/2003
TITLE: CATHETERS, SYSTEMS AND METHODS FOR PERCUTANEOUS IN SITU ARTERIO-VEINOUS BYPASS

015000/0001 PAGE 7

P2012 US
SERIAL NUMBER: 09282774 FILING DATE: 03/31/1999
PATENT NUMBER: 6375615 ISSUE DATE: 04/23/2002
TITLE: TISSUE PENETRATING CATHETERS HAVING INTEGRAL IMAGING TRANSDUCERS
AND THEIR METHODS OF USE

P2013 US
SERIAL NUMBER: 09505149 FILING DATE: 02/15/2000
PATENT NUMBER: 6589164 ISSUE DATE: 07/08/2003
TITLE: STERILITY BARRIERS FOR INSERTION OF NON-STERILE APPARATUS INTO
CATHETERS OR OTHER MEDICAL DEVICES

P2014 US
SERIAL NUMBER: 09507139 FILING DATE: 02/18/2000
PATENT NUMBER: 6508824 ISSUE DATE: 01/21/2003
TITLE: CATHETER-BASED METHODS, APPARATUSES AND SYSTEMS FOR ENLARGING BLOOD
VESSELS TO FACILITATE THE FORMATION OF PENETRATION TRACTS, FISTULAS
AND/OR BLOOD FLOW CHANNELS

P2016 US
SERIAL NUMBER: 08616588 FILING DATE: 03/15/1996
PATENT NUMBER: 5830224 ISSUE DATE: 11/03/1998
TITLE: CATHETER APPARATUS AND METHODOLOGY FOR GENERATING A FISTULA ON-
DEMAND BETWEEN CLOSELY ASSOCIATED BLOOD VESSELS AT A PRE-CHOSEN
ANATOMIC SITE IN-VIVO

P2016 DIV1
SERIAL NUMBER: 09134995 FILING DATE: 08/17/1998
PATENT NUMBER: 6099542 ISSUE DATE: 08/08/2000
TITLE: CATHETER APPARATUS AND METHODOLOGY FOR GENERATING A FISTULA ON-
DEMAND BETWEEN CLOSELY ASSOCIATED

P2016 con 1
1572
twice
see pg. 3
SERIAL NUMBER: 09960003 FILING DATE: 09/21/2001
PATENT NUMBER: 6669709 ISSUE DATE: 12/30/2003
TITLE: CATHETER APPARATUS AND METHODOLOGY FOR GENERATING A FISTULA ON-
DEMAND BETWEEN CLOSELY ASSOCIATED BLOOD VESSELS AT A PRE-CHOSEN
ANATOMIC SITE IN-VIVO

P2018 US
SERIAL NUMBER: 09329386 FILING DATE: 06/10/1999
PATENT NUMBER: 6126649 ISSUE DATE: 10/03/2000
TITLE: STEERABLE CATHETER WITH EXTERNAL GUIDEWIRE AS CATHETER TIP DEFLECTOR

(not own case) * *P2019 US*
SERIAL NUMBER: 09013657 (09/009,135) FILING DATE: 01/26/1998
PATENT NUMBER: 6015504 (6,015,405) ISSUE DATE: 01/18/2000
TITLE: METHOD FOR INCREASING THE SPF RATING OF TEXTILE FIBERS BY TREATMENT
WITH TRIAZINYLDIAMINO STILBENE COMPOUNDS

P2020 US
SERIAL NUMBER: 08714466 FILING DATE: 09/16/1996
PATENT NUMBER: 5655548 ISSUE DATE: 08/12/1997
TITLE: METHOD FOR TREATMENT OF ISCHEMIC HEART DISEASE BY PROVIDING
TRANSVENOUS MYOCARDIAL PERFUSION

P2020 CIP1
SERIAL NUMBER: 08929076 FILING DATE: 09/15/1997
PATENT NUMBER: 6447539 ISSUE DATE: 09/10/2002
TITLE: METHOD AND APPARATUS FOR TRESTING ISCHEMIC HEART DISEASE BY
PROVIDING TRANSVENOUS MYOCARDIAL PERFUSION

* *P2019 US*
* currently assigned to TheraCardia, LLC ✓ L/Stout

015000/0001 PAGE 8

P2020 CIP2
SERIAL NUMBER: 09208807 FILING DATE: 12/09/1998
PATENT NUMBER: 6186972 ISSUE DATE: 02/13/2001
TITLE: METHODS AND APPARATUS FOR TREATING ISCHEMIC HEART DISEASE BY PROVIDING TRANSVENOUS MYOCARDIAL PERFUSION

(NOT 2020 CASE)
SERIAL NUMBER: 08285468 *04/215,797 P2022 US* FILING DATE: 08/03/1994
PATENT NUMBER: 5569145 *(6,569,145)* ISSUE DATE: 10/29/1996
TITLE: METHOD AND APPARATUS FOR MANUFACTURING A SACK BOTTOM

P2020 DIV1
SERIAL NUMBER: 08798700 FILING DATE: 02/12/1997
PATENT NUMBER: 5824071 ISSUE DATE: 10/20/1998
TITLE: APPARATUS FOR TREATMENT OF ISCHEMIC HEART DISEASE BY PROVIDING TRANSVENOUS MYOCARDIAL PERFUSION

P2023 US
SERIAL NUMBER: 09766502 FILING DATE: 01/17/2001
PATENT NUMBER: 6602241 ISSUE DATE: 08/05/2003
TITLE: METHODS AND APPARATUS FOR ACUTE OR CHRONIC DELIVERY OF SUBSTANCES OR APPARATUS TO EXTRAVASCULAR TREATMENT SITES

P2020 CIP1
SERIAL NUMBER: 09048147 FILING DATE: 03/25/1998
PATENT NUMBER: 6283951 ISSUE DATE: 09/04/2001
TITLE: SYSTEMS AND METHODS FOR DELIVERING DRUGS TO SELECTED LOCATIONS WITHIN THE BODY

P2009 CIP2
SERIAL NUMBER: 09089032 FILING DATE: 06/02/1998
PATENT NUMBER: 6330884 ISSUE DATE: 12/18/2001
TITLE: DEFORMABLE SCAFFOLDING MULTICELLULAR STENT

P2031 DIV1
SERIAL NUMBER: 09933295 FILING DATE: 08/20/2001
PATENT NUMBER: 6613081 ISSUE DATE: 09/02/2003
TITLE: DEFORMABLE SCAFFOLDING MULTICELLULAR STENT

*P2024 CIP
MIRA
TULSA
100 PM 5*
SERIAL NUMBER: 09179737 FILING DATE: 10/27/1998
PATENT NUMBER: 6379319 ISSUE DATE: 04/30/2002
TITLE: SYSTEMS AND METHODS FOR DIRECTING AND SNARING GUIDEWIRES

*TRANS
01/87*
*
SERIAL NUMBER: 06504141 *(27,110,141)* FILING DATE: 06/14/1983
PATENT NUMBER: 4774949 ISSUE DATE: 10/04/1988
TITLE: DEFLECTOR GUIDING CATHETER

P2026 PCT
SERIAL NUMBER: FILING DATE:
PATENT NUMBER: ISSUE DATE:
PCT NUMBER: US0308015
TITLE:

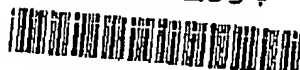
P2027 PCT
SERIAL NUMBER: FILING DATE:
PATENT NUMBER: ISSUE DATE:
PCT NUMBER: US0311284
TITLE:

* PER OUR TVI RESEARCH
THERE IS NO PATENT FILE
- 100 Fugate Agreements

015000/0001 PAGE 9

SHARON LATIMER, EXAMINER
ASSIGNMENT DIVISION
OFFICE OF PUBLIC RECORDS

03-02-2004



102681675

U.S. DEPARTMENT OF COMMERCE

Patent and Trademark Office

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

TransVascular, Inc.
1505-D Adams Drive
Menlo Park, CA 94025

2.26-04

2. Name and address of receiving party(ies):

Medtronic Vascular, Inc.
3576 Unocal Place
Santa Rosa, CA 95403

A Delaware corporation.

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

3. Nature of conveyance:

- ☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ Other _____

Execution Date: September 9, 2003

4. Application number(s) or patent number(s): See Attached Exhibit A & B

If this document is being filed together with a new application, the filing date of the application is: [Inventor Declaration Execution Date]

A. Patent Application No.(s):

09/708,923; 10/425,543; 60/005,164; 09/181,701; 10/640,998; 60/010,614; 10/425,756; 60/028,922; 08/837,295; 09/710,332; 09/994,222; 10/150,306; 10/436,016; 09/912,122; 10/259,210; 09/911,975; 09/845,372; 10/346,556; 10/370,429; 10/033,836; 09/538,119; 09/960,003; 09/613,675; 09/320,172; 09/794,297; 10/486,622; 10/458,153; 10/467,274; 09/860,147; 10/370,201; 10/391,481; PCT/US03/08015; 10/411,891; PCT/US03/11284; 60/455,015; 09/826,049; 10/617,105; 09/748,109; 09/539,639; 09/179,737 and 10/136,929

B. Patent No.(s):

6,190,353; 6,655,386; 6,830,222; 6,283,983; 6,068,638; 6,159,225; 6,231,587; 6,567,311; 6,816,875; 6,302,875; 6,638,293; 6,071,292; 6,287,317; 6,491,707; 5,193,546; 6,432,127; 6,561,998; 6,544,230; 6,375,615; 6,589,164; 6,508,824; 5,830,224; 6,099,542; 6,669,709; 6,126,649; 6,015,504; 6,655,548; 6,447,539; 6,186,972; 5,824,071; 5,569,145; 5,824,071; 6,602,241; 6,283,951; 6,330,884; 6,613,081; 6,379,319; and 4,774,949

Additional numbers attached? ☐ Yes ☒ No

5. Name and address of party to whom correspondence concerning document should be mailed:

Robert D. Buyan
Stout, Uxa, Buyan & Mullins, LLP
4 Venture, Suite 300
Irvine, CA 92618

6. Total number of applications and patents involved: 79

7. Total Fee (37 CFR 3.41).....\$3,160.00

- ☒ Enclosed (Check No. 3333)
☐ Authorized to be charged to deposit account if fee is insufficient.

8. Deposit account number: 50-0878

(Attach duplicate copy of this page if paying by deposit account.)

DO NOT USE THIS SPACE

9. Statement and signature.

To the best of my knowledge and belief, the foregoing is true and correct and any attached copy is a true copy of the original document.

Robert D. Buyan

Name of Person Signing

Signature

Attorney Docket No. MEDTR-000

February 24, 2004

Date

Total number of pages including cover sheet, attachments and document: [Total No. pages 20]

03-JUL-2004 45ETACHE 00000115 09708953

C1 FC:8021

3160.00 DP

PATENT ASSIGNMENT

WHEREAS, TransVascular, Inc., a California corporation ("Assignor"), is the owner of the United States patents and patent applications identified on Exhibit A and of the foreign patents and patent applications identified on the attached Exhibit B; and

WHEREAS, Medtronic AVE, Inc., a Delaware corporation, ("Assignee") desires to acquire the entire right, title and interest in and to the United States and foreign patents and patent applications and in and to the inventions described and claimed therein;

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, Assignor hereby sells, assigns and transfers to Assignee, its successors and assigns: the entire right, title and interest in and to the patents and patent applications listed on Exhibits A and B hereto including the inventions therein described and claimed; all rights for past infringement thereof; all renewals, reissues, extensions, substitutions, continuations, continuations-in-part, or divisions thereof, or any applications that claim any priority rights thereof; all foreign applications based thereon; and the right to apply for patents in foreign countries in its own name, including the right to claim any priority rights to which such foreign applications are entitled under international conventions, treaties, or otherwise.

Assignor further agrees to execute and deliver without further consideration any further application, assignments or other documents and to perform such other lawful acts as Assignee, its successors and assigns may deem reasonably necessary to fully secure, maintain and enforce its rights, title or interest as specified herein.

Assignor hereby authorizes and requests the appropriate patent offices to issue to Assignee any patents that may be granted in accordance with this Assignment.

TRANSVASCULAR, INC.

By: [Signature]Name Printed: NBH/GoodSpeedTitle: CEO

STATE OF CALIFORNIA

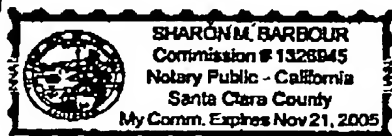
COUNTY OF Santa Clara

ss.

On September 9, 2003, before me, Sharon M. Barbour, personally appeared Norwick B. H. GoodSpeed personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument, and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the instrument the person, or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal.

[SEAL]

[Signature]
Notary Signature